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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/574,926	06/21/2006	Kim S. Petersen	66722-087-7	5545
25269	7590	12/22/2008	EXAMINER	
DYKEMA GOSSETT PLLC			MONIKANG, GEORGE C	
FRANKLIN SQUARE, THIRD FLOOR WEST				
1300 I STREET, NW			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2614	
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			12/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/574,926	PETERSEN, KIM S.	
	Examiner	Art Unit	
	GEORGE C. MONIKANG	2614	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 27 October 2008.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-9 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. 10/574,926.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)	5) <input type="checkbox"/> Notice of Informal Patent Application
Paper No(s)/Mail Date _____ .	6) <input type="checkbox"/> Other: _____ .

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 10/27/2008, with respect to the rejection(s) of claim(s) 1-9 under 10/574,926 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Rast, US Patent Pub. 2001/0046304.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

3. Claims 1, 6, 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krokstad et al, US Patent 5,276,739, in view of Rast, US Patent Pub. 2001/0046304.
(The Krokstad et al reference is cited in IDS filed 4/7/2006)

Re Claim 1, Krokstad et al discloses a method for processing signals from two or more microphones (*Krokstad, abstract*) in a listening device which has a casing holding the microphones (*Krokstad, fig. 2: m1 & m2*), a signal processing unit which provides an output signal in correspondence with the signals from the microphones (*Krokstad, fig. 5a: DSP; abstract*) and suited to user's hearing and a receiver unit for delivering the output signal to the user is (*Krokstad, fig. 5a: SG; abstract*); but fails to disclose analyzing the signals from microphones in order to detect when the casing is being touched (*Rast, fig. 3; para 0055: touch pattern changes the processing of the input signal either by volume control, pause, play, stop etc*), and changing the signal processing of the signal processing unit when touching of the casing is detected (*Rast, fig. 3; para 0055: touch pattern changes the processing of the input signal either by volume control, pause, play, stop etc*). It would have been obvious to use the touch pattern ability of Rast (*Rast, fig. 3; para 0055: touch pattern changes the processing of the input signal either by volume control, pause, play, stop etc*) with the method for processing signals of Krokstad for the purpose of easier and more convenient use of an earpiece.

Re Claim 6, the combined teachings of Krokstad et al and Rast disclose the method as claimed in claim 3, but fails to disclose comprising temporarily attenuating the output signal to the user whenever it is determined that the casing is being touched (*Rast, fig. 3; para 0055: touch pattern changes the processing of the input by volume reduction patterns*)

Claim 8 has been analyzed and rejected according to claim 1.

Re Claim 9, the combined teachings of Krokstad et al and Rast disclose the listening device as claimed in claim 8, including a sound generator for generating a specific sound when the casing is touched (*Rast, fig. 3; para 0055: touch pattern causing the headset to play a sound*), such that a user may touch the sound generator whenever user input to the hearing aid is desirable (*Krokstad et al, col. 12, lines 44-61: different functions determines what kind of sound the user hears depending on the environment*).

1. Claims 2-5 & 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Krokstad et al, US Patent 5,276,739 and Rast, US Patent Pub. 2001/0046304 as applied to claim 1 above, in view of Arcos et al, US Patent 5,396,560. (The Arcos et al reference is cited in IDS filed 4/7/2006)

Re Claim 2, Krokstad et al and Rast disclose the method as claimed in claim 1, but fail to disclose comprising determining short term energy in the signals from the microphones, and determining change in difference over time in short term energy between the microphone signals as taught in Arcos et al (*Arcos et al, col. 3, lines 23-53*). It would have been obvious to use the short term energy determination ability of Arcos et al (*Arcos et al, col. 3, lines 23-53*) with the method of processing signals of Krokstad and Rast for the purpose of integrating the microphone signals.

Re Claim 3, the combined teachings of Krokstad et al, Rast and Arcos et al disclose the method as claimed in claim 2, whereby time related change in difference in the short term energy content in the microphone signals to determine the rate of change

in difference between the short term energy of the microphone signals (*Arcos et al, col. 3, lines 23-53*).

Re Claim 4, the combined teachings of Krokstad et al, Rast and Arcos et al disclose the method as claimed in claim 2, comprising changing a value in the signal processing unit whenever the rate of change in difference in the short term energy between the microphone signals reaches a pre-selected level in order to indicate that the casing is being touched (*Arcos et al, col. 3, lines 23-53: acoustical power which does not significantly change over time for about 10 secs could be set time level of touching the case to enact a change in the signal processing*).

Re Claim 5, the combined teachings of Krokstad et al, Rast and Arcos et al disclose the method as claimed in claim 3, comprising temporarily interrupting a microphone matching procedure whenever it is determined that the casing is being touched (*Krokstad et al, col. 12, lines 44-61*).

Re Claim 7, the combined teachings of Krokstad et al, Rast and Arcos et al disclose the method as claimed in claim 3, comprising a lasting change in the signal processing whenever it is determined that a non-accidental touch of the casing has occurred (*Kanamori et al, col. 16, line 64 through col. 17, line 7*).

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GEORGE C. MONIKANG whose telephone number is

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(571)270-1190. The examiner can normally be reached on M-F. alt Fri. Off 7:30am-5:00pm (est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George C Monikang/
Examiner, Art Unit 2614

12/14/2008

/Vivian Chin/
Supervisory Patent Examiner, Art Unit 2614